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# मानक

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IS 7492 (1989): Sewing machines, household - Sewing requirements [MED 29: Sewing Machines]



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*Indian Standard*  
**SEWING MACHINES, HOUSEHOLD —  
SEWING REQUIREMENTS**  
( *First Revision* )

UDC 687'053 : 620'16

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**BUREAU OF INDIAN STANDARDS**  
**MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG**  
**NEW DELHI 110002**

## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards on 7 June 1989, after the draft finalized by the Sewing Machines Sectional Committee had been approved by the Light Mechanical Engineering Division Council.

This standard was originally issued in 1974 with a view to establish the quality and durability of sewing machine for household purpose.

This revision incorporate the following modification which are felt necessary as a result of experience gained in manufacture and test:

- a) Incorporation of latest designation of thread, and
- b) Indication of sewing method against sewing speed.

The other standards in this series are:

IS 7491 : 1989 Sewing machines, household — Accuracy requirements

IS 7493 : 1989 Sewing machines, household — Durability requirements

# Indian Standard

## SEWING MACHINES, HOUSEHOLD — SEWING REQUIREMENTS

### ( First Revision )

**1 SCOPE**

**1.1** This standard covers the sewing test conditions and sewing requirements for sewing machines for household purposes.

**2 REFERENCES**

IS No.	Title
IS 1101 : 1981	Handloom cotton cellular shirting ( first revision )

*IS No.**Title*

IS 1584 : 1960	Handloom silk shirting, loomstate
IS 1720 : 1978	Cotton sewing threads ( <i>second revision</i> )
IS 2181 : 1973	Household sewing machine needles for household purposes ( <i>first revision</i> )

**3 TEST CONDITIONS**

**3.1** The test shall be carried out in forward stitching under the conditions given in Table 1.

**Table 1 Test Conditions**

Sl No.	Item	Needle Size <sup>1</sup>	Kind of Thread <sup>2</sup>	Sewing Material <sup>3</sup>	Number of Layers	Stitch Length, Approx mm	Sewing Speed, Approx, Min <sup>4</sup> rev/min	Sewing Length, Approx mm
1)	Common sewing test	14	40s/3	Shirting cloth	2	1.5 3	300 600	500
2)	Sewing test on steps	14 or 16	40s/3	Shirting cloth	4 to 12 and 12 to 4	1.5 3	300 600	250
3)	Sewing test on thicker material	16 or 18	40s/3	Drill	6	3	600	500
4)	Sewing test on light material	11	50s/3	Polyester silk cloth or muslin	2	1.5	600	500
5)	Sewing test for straightness of stitch	14	—	Blue print paper	2	3	600	In forward sewing with hands free, the maximum height of an arc shall be below 5 mm for the freed chord of 200 mm length

<sup>1</sup>As specified in IS 2181 : 1973.

<sup>2</sup>As specified in IS 1720 : 1978.

<sup>3</sup>As specified in IS 1101 : 1981.  
As specified in IS 1584 : 1960.

<sup>4</sup>300 rev/min : Sewing by hand attachment.  
600 rev/min : Sewing by treadle.

**3.2** The reverse sewing test shall be carried out for 50 mm length at the maximum reverse position and common sewing test only.

**3.3** In case of sewing test on steps, the length of step ( 12 layers ) shall be about 20 mm and the number of steps shall be added at 5 places. Besides, the length on 4 layers shall be 30 mm or more.

#### **4 SEWING REQUIREMENTS**

**4.1** The tests shall meet the following requirements:

a) There shall no false stitch.

b) There shall be no breakage of threads.

c) Thread tensions, both upper and lower, shall be satisfactory.

d) Squeezing of cloth shall not be visible in forward stitching. However, for reverse stitching, a little squeezing is permissible.

e) There shall be no damage to the cloth and the thread.

f) Feed of cloth shall be satisfactory and there shall be no damage to the cloth and the thread.

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## BUREAU OF INDIAN STANDARDS

### Headquarters :

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002  
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha  
( Common to all Offices )

### Regional Offices :

Telephone

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg  
NEW DELHI 110002

{ 331 01 31  
331 13 75

Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola  
CALCUTTA 700054

36 24 99

Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036

{ 2 18 43  
3 16 41

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

{ 41 24 42  
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